Medical application

Thermal Imageing Camera

Thermal Imaging Camera TI120

TI120 Thermal Imaging Camera is a professional thermal imager for medical application. Utilizing advanced detector can take crisp thermal imaging for flowing crowds with accurate, non contact, non invasive method to visualize skin surface temperature difference, which is the ideal instrument of the frontline of defense for government and corporation in public and private sectors.

- New generation high performance IR detector 160x120 pixels 25μm
- Crisp thermal images
- Bright 3.5 Color LCD
- 50Hz Real-time Imaging
- High accuracy, +/-0.6ºC
- Automatic search and alarm
- Non contact monitoring

Detector Data of TI120 Infrared Camera
Detector type : Focal plane array(FPA), uncooled Microbolometer
IR resolution : 160 x 120 pixels
Pixel pitch : 25μm

Imaging and Optical Data
Spectral range : 8-14μm
Field of view (FOV) : 21°×16°/0.15m (standard lens)
Spatial resolution (IFOV) : 2.3mrad (21°×16°)
Thermal sensitivity(NETD) : 100mk at 30ºC
Image frequency : 50/60Hz
Focus : Manual

Image Presentation
Display : 3.5” color LCD

Measurement
Temperature range : -20ºC to +50ºC
Accuracy : +/- 0.6ºC
Measurement spot : 4 moveable spot
Measurement area : Automatically capture maximum temperature
Line profile : Horizontal / vertical line profile
Isotherms analysis : Yes
High temperature alarm : Voice, color
Emissivity correction : Adjustable from 0.01 to 1.0
Temperature correction : Auto

Image Storage
Storage type : Build-in flash card, up to 1500 images
Files format : Standard JPEG, 14-bit measurement data included
Voice comments : 40s voice record digital voice, stored with per image via built-in microphone.

Laser Indication
Classification type : Class 2, 1mW/635nm Red

Power System
Battery type : Rechargeable and replaceable Li-ion battery
Battery operating time : Approx 3 hours
Power saving : User defined
Power operation : 7-9V DC

Environment Data
Operating temperature range : -20ºC - +50ºC
Storage temperature range : -40ºC - +70ºC
Humidity (operating and storage) : <=90％non-condensing
IP rating : IP54 IEC529
Shock : 25G IEC68-2-29
Vibration : 2G IEC68-2-26

Interfaces
Size, L x W x H : 330mm × 95mm × 86mm
Weight : 650g
Tripod mounting : 1/4 " -20

Interfaces
External DC input : Yes
Audio output : Yes
Video output : PAL / NTSC
PC : USB

TI120 Infrared Camera Includes
Standard : Thermal imaging camera with 18° standard lens, 2 Li-ion batteries, charger, adapter, Video cable, USB cable, Software CD, manual, transport case.
Optional accessories : Tripod, Li-ion battery, infrared lens

Temperature measurement

Thermal Imageing Camera

Thermal Imaging Camera TI160

Thermal Imaging Camera TI160 with a high thermal sensitivity of 65mk can identify the smallest temperature difference from the object and display it by excellent thermal images. As a potential fault always coming with the partial overheat / overcool, so the user can locate the overheated / overcooled part with a Thermal Imaging Camera instantaneously, and more details about the fault will be found by assistance of our professional Thermal Imaging Analysis Software.

- Affordable price
- UFPA detector, 160x120 pixels
- Excellent thermal images and high accuracy: NETD<65mk at 30℃, ±2℃ accuracy
- Large 3.5” color LCD display
- Auto|Manual focus for one-hand operation
- 2x continuous digital zoom
- Wide temp range up to 1200℃
- 4 adjustable spot, 3 adjustable boxes with auto max. |min. |average temperature
- Optional wide-angel lens & telephoto lens
- Built-in microphone and voice annotation
- High temperature alarm by voice and color
- Intuitive and easy operating menu
- Li-ion battery, more than 3 hours’ operation
- Multi-function IRSee analysis software

Detector Data
Detector type
Focal plane array(FPA),Uncooled Microbolometer
IR resolution
160 x 120 pixels
Pixel pitch
25*μm*

IR Imaging and Optical Data
Spectral range
8-14*μm*
Field of view (FOV)/min focus distance
21°x 16°/0.15m(standard lens)
35°x 27°/0.05m (wide angle lens?optional)
4° x 3° /0.8m (telephoto lens,optional)

Image Presentation
Spatial resolution (IFOV)
2.3mrad(standard lens)
Thermal sensitivity(NETD)
<65mk at 30℃
Image frequency
50/60Hz
Focus
Manual
Electronic zoom
2x
Display
Built-in 3.5" color LCD

Measurement
Temperature range
-20℃to +120℃ / 0℃ to +350℃(switchable)
Up to 1200℃(optional)
Accuracy
±2℃ or ±2% of reading
Measurement spot
Up to 4 moveable spots
Measurement area
Up to 3 moveable boxes, automatically capture maximum minimum, average temperature
Line profile
Vertical, horizontal
Isotherms analysis
Detect high/low temperature/interval
High temperature alarm
Voice, color
Emissivity correction
Adjustable from 0.01 to 1.0
Temperature correction
Auto
Multiple Language Menu
10 Languages(English, French, Italian, German, Spanish, Portuguese, Russian, Korean, Japanese, Simplified Chinese & Traditional Chinese)

Image Storage of Thermal Imaging Camera
Storage type
Built-in flash card, up to 1500 images
Files format
Standard JPEG, 14-bit measurement data included
Voice comments
40s voice record, stored with per image via built-in microphone.

Laser Indication
Classification type
Class 2, 1mW/635nm Red

Power System
Battery type
Rechargeable and replaceable Li-ion battery
Battery operating time
Approx 3 hours
Power saving
User defined
Power operation
12V ±5%

Environment Data
Operating temperature range
-20℃ - +50℃
Storage temperature range
-40℃ - +70℃
Humidity(operating and storage)
≤90%non-condensing
Shock
25G IEC68-2-29
Vibration
2G IEC68-2-26

Physical Data
Size, L x W x H
330mm × 95mm × 86mm
Weight
650g
Tripod mounting
1/4"-20

Interfaces
External DC input
Yes
Audio output
Yes
Video output
PAL / NTSC
USB
Images transfer to PC

Camera Includes
Standard
Thermal imaging camera with standard IR lens, 2 Li-ion batteries, battery charger, adapter, Video cable, USB cable, Software CD, instruction, warranty card, transport case
Optional accessories
Li-ion battery, IR lens

Temperature measurement

Thermal Imageing Camera

Thermal Imaging Camera TI384

Thermal Imaging Camera TI384 with a high thermal sensitivity of 65mk can identify the smallest temperature difference from the object and display it by excellent thermal images. As a potential fault always coming with the partial overheat / overcool, so the user can locate the overheated / overcooled part with a Thermal Imaging Camera instantaneously, and more details about the fault will be found by assistance of our professional Thermal Imaging Analysis Software.

- Affordable price
- UFPA detector, 384x288 pixels
- Excellent thermal images and high accuracy: NETD<65mk at 30℃, ±2℃ accuracy
- Large 3.5” color LCD display
- Auto|Manual focus for one-hand operation
- 2x continuous digital zoom
- Wide temp range up to 1200℃
- 4 adjustable spot, 3 adjustable boxes with auto max. |min. |average temperature
- Optional wide-angel lens & telephoto lens
- Built-in microphone and voice annotation
- High temperature alarm by voice and colo
- Intuitive and easy operating menu
- Li-ion battery, more than 3 hours’ operation
- Multi-function IRSee analysis software

Detector Data

Detector type
Focal plane array(FPA),Uncooled Microbolometer
IR resolution
384 x 288 pixels
Pixel pitch
25 μm

IR Imaging and Optical Data

Spectral range
8-14 μm
Field of view (FOV)/min focus distance
18°x 14°/0.15m(standard lens)
30°x 23°/0.1m (wide angle lens℃optional)
9° x6° /0.8m (telephoto lens,optional)

Image Presentation

Spatial resolution (IFOV)
1.0 mrad(standard lens)
Thermal sensitivity(NETD)
<65mk at 30℃
Image frequency
50/60Hz
Focus
Manual
Electronic zoom
2x
Display
Built-in 3.5" color LCD

Measurement of Thermal Imaging Camera TI384

Temperature range
-20℃ to +120℃ / 0℃ to +350℃(switchable)
Up to 1200℃(optional)
Accuracy
±2℃ or ±2% of reading
Measurement spot
Up to 4 moveable spots
Measurement area
Up to 3 moveable boxes, automatically capture maximum minimum, average temperature
Line profile
Vertical, horizontal
Isotherms analysis
Detect high/low temperature/interval
High temperature alarm
Voice, color
Emissivity correction
Adjustable from 0.01 to 1.0
Temperature correction
Auto
Multiple Language Menu
10 Languages(English, French, Italian, German, Spanish, Portuguese, Russian, Korean, Japanese, Simplified Chinese & Traditional Chinese)

Image Storage

Storage type
Built-in flash card, up to 800 images
Files format
Standard JPEG, 14-bit measurement data included
Voice comments
40s voice record, stored with per image via built-in microphone.

Laser Indication

Classification type
Class 2, 1mW/635nm Red

Power System

Battery type
Rechargeable and replaceable Li-ion battery
Battery operating time
Approx 3 hours
Power saving
User defined
Power operation
12V ±5%

Environment Data

Operating temperature range
-20℃ - +50℃
Storage temperature range
-40℃ - +70℃
Humidity(operating and storage)
≤90% non-condensing
Shock
25G IEC68-2-29
Vibration
2G IEC68-2-26

Physical Data

Size, L x W x H
330mm × 95mm × 86mm
Weight
650g
Tripod mounting
1/4" -20

Interfaces

External DC input
Yes
Audio output
Yes
Video output
PAL / NTSC
USB
Images transfer to PC

Camera Includes

Standard
Thermal imaging camera with standard IR lens, 2 Li-ion batteries, battery charger, adapter, Video cable, USB cable, Software CD, instruction, warranty card, transport case
Optional accessories
Li-ion battery, IR lens

Temperature measurement

Thermal Imageing Camera

Thermal Imaging Camera TI175

TI175 is the third generation thermal imaging system product. With cutting-edge thermal imaging technology, including high sensitivity IR detector(25μm pixel pitch, NETD<65mK) and ergonomic design, it is the ideal choice for professional thermographers to have the most efficient instrument for industry applications

- Affordable price
- UFPA detector, 160x120 pixels
- Excellent thermal images and high accuracy: NETD<65mk at 30℃, ±2℃ accuracy
- Auto|Manual focus for one-hand operation
- 4x continuous digital zoom
- 270°rotatable LCD, Built-in 3.0 mega pixel visual camera
- Movable and resizable P-I-P and thermal fusion
- Wide temp range up to 1200℃
- 4 adjustable spot, 3 adjustable boxes with auto max. |min. |average temperature
- Optional wide-angel lens & telephoto lens
- Built-in microphone and voice annotation
- Dew point alarm
- Intuitive and easy operating menu
- Real time thermal video transfer to PC via USB, remote transfer via MSN and Skype
- Li-ion battery, more than 3 hours' operation
- Multi-function IRSee analysis software

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Detector Data

Detector type
Uncooled FPA
IR resolution
160 x 120 pixels
Pixel pitch
25μm
Spectral range
8-14μm
Field of view (FOV)/min focus distance
21°x 16°/0.15m(standard lens)
42°x 32°/0.1m (wide angle lens，optional)
10° x8° /1m (telephoto lens,optional)
Spatial resolution (IFOV)
2.3mrad(standard lens)
Thermal sensitivity(NETD)
<65mk at 30℃

Image Presentation

Image Display
3.2” 270° tiltable LCD
Image modes
Thermal image,visual image,thermal fusion,PIP，WIW,thumbnail gallery
Thermal fusion
IR image shown above, beow or within temp interval on visual image
Picture in Picture
Resizable and movable IR area on visual image
Focus
Auto/Motor
Digital Zoom
1-4X Continuous
Visual camera
3.0 mega pixel
Spotlight
10cd/m2
Frequency
50Hz(PAL)/60Hz(NTSC)

Measurement

Temperature range
-20℃ ~ 250℃ (Industrial)
-20℃ ~ 600℃ (optional A)
-20℃ ~ 1200℃ (optional B)
Accuracy
±2℃ or ±2% of reading
Measurement spot
Up to 4 moveable spots
Measurement area
Up to 3 moveable boxes with max./min,/average
Line profile
Vertical, horizontal
Isotherms analysis
Detect high/low temperature/interval
Hot/cold spot Auto detection
Max/Min/Average temp
Emissivity correction
Adjustable from 0.01 to 1.0
Temperature correction
Auto
Alarm
Voice and Color
Color palettes
Iron, anti-iron, feather red, black hot, white hot, medical
Set-up commands
Date/time, temperature units °C/°F/K, language, scale
Measuring Calibration
Automatic, based on inputs

Image Storage

Storage type
4G SD card, Building-in flash
Storage Capacity
Up to700 images in built-in flash card
Up to 11200 images in 4G SD card
Storage format
Standard JPEG, including measurement data
Periodic image storage
user defined, 7seconds at least .

Laser Point

Classification type
Class II , 1mW/635nm Red

Power System

Battery
Li-ion, ≥3 hours operating time
Charging system
In camera or AC adapter
AC Supply
110～240V AC，50/60Hz，5V DC output
Voltage
5V ±5%
Power management
Automatic shutdown(user selectable)

Environment Data

Operating temperature range
-20℃ - +50℃
Storage temperature range
-40℃ - +70℃
Humidity(operating and storage)
≦90％non-condensing
IP Level
IP54
Shock
25G, IEC68-2-29
Vibration
2G, IEC68-2-26

Physical Data

Size, L x W x H
128mm × 62mm × 154mm
Weight (with battery and standard lens)
393g
Size of screw nut on tripod
1/4 " -20

Data communication interfaces

USB
Images transfer to and from PC
Audio output
Yes
Video output
PAL / NTSC

Packing Contents

Standard
Thermal imaging camera with standard IR lens, 2 Li-ion batteries, battery charger, adapter, Video cable, USB cable, Software CD, instruction, warranty card, transport case
Optional accessories
Li-ion battery, IR lens

Temperature measurement

Thermal Imageing Camera

Thermal Imaging Camera TI395

TI395 is the third generation thermal imaging system product. With cutting-edge thermal imaging technology, including high sensitivity IR detector(25μm pixel pitch, NETD<65mK) and ergonomic design, it is the ideal choice for professional thermographers to have the most efficient instrument for industry applications.

- Affordable price
- UFPA detector, 384x288 pixels
- Excellent thermal images and high accuracy: NETD<65mk at 30℃, ±2℃ accuracy
- Auto|Manual focus for one-hand operation
- 8x continuous digital zoom
- 270°rotatable LCD, Built-in 3.0 mega pixel visual camera
- Movable and resizable P-I-P and thermal fusion
- Wide temp range up to 1200℃
- 4 adjustable spot, 3 adjustable boxes with auto max. |min. |average temperature
- Optional wide-angel lens & telephoto lens
- Built-in microphone and voice annotation
- Dew point alarm
- Intuitive and easy operating menu
- Real time thermal video transfer to PC via USB, remote transfer via MSN and Skype
- Li-ion battery, more than 3 hours' operation
- Multi-function IRSee analysis software

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Detector Data

Detector type
Uncooled FPA
IR resolution
384 x288 pixels
Pixel pitch
25 μm
Spectral range
8-14μm
Field of view (FOV)/min focus distance
21°x 16°/0.4m(standard lens)
38°x 28°/0.3m (wide angle lens?optional)
11° x8.5° /1.2m (telephoto lens,optional)
Spatial resolution (IFOV)
1.2 mrad(standard lens)
Thermal sensitivity(NETD)
<65mk at 30℃

Image Presentation

Image Display
3.2” 270° tiltable LCD
Image modes
Thermal image,visual image,thermal fusion,PIP，WIW,thumbnail gallery
Thermal fusion
IR image shown above, below or within temp interval on visual image
Picture in Picture
Resizable and movable IR area on visual image
Focus
Auto/Motor
Digital Zoom
1-8X Continuous (Expand to SX)
Visual camera
3.0 mega pixel
Spotlight
10cd/m2
Frequency
50Hz(PAL)/60Hz(NTSC)

Measurement

Temperature range
-20℃ ~ 250℃ (Industrial)
-20℃ ~ 600℃ (Optional A)

-20℃ ~ 1200℃ (Optional B)
Accuracy
±2℃ or ±2% of reading
Measurement spot
Up to 4 moveable spots
Measurement area
Up to 3 moveable boxes with max./min,/average
Line profile
Vertical, Horizontal
Isotherms analysis
Detect high/low temperature/interval
Hot/cold spot Auto detection
Max/Min/Average temp
Emissivity correction
Adjustable from 0.01 to 1.0
Alarm
Voice and Color
Color palettes
Iron, anti-iron, feather red, black hot, white hot, medical
Set-up commands
Date/time, temperature units °C/°F/K, language, scale
Measuring Calibration
Automatic, based on inputs

Image Storage

Storage type
4G SD card, Building-in flash
Storage Capacity
Up to 500 images in built-in flash card Up to 8000 images in 4G SD card
Storage format
Standard JPEG, including measurement data
Periodic image storage
user defined, 7 seconds at least .

Laser Point

Classification type
Class II , 1mW/635nm Red

Power System

Battery
Li-ion, ≥3 hours operating time
Charging system
In camera or AC adapter
AC Supply
110～240V AC, 50/60Hz℃,5V DC output
Voltage
5V ±5%
Power management
Automatic shutdown(user selectable)

Environment Data

Operating temperature range
-20℃ - +50℃
Storage temperature range
-40℃ - +70℃
Humidity(operating and storage)
≦90%(non-condensing)
IP Level
IP54
Shock
25G, IEC68-2-29
Vibration
2G, IEC68-2-26

Physical Data

Size, L x W x H
128mm × 62mm × 154mm
Weight (with battery and standard lens)
393g
Size of screw nut on tripod
1/4℃-20

Data communication interfaces

USB
Data transfer to and from PC
Audio output
Yes
Video output
PAL / NTSC

Packing Contents

Standard
Thermal imaging camera with standard lens, 2 batteries, battery charger, USB cable, SD card, SD card reader, IRSee software CD-ROM, power adapter, user manual,warranty card, calibration certificate.
Optional accessories
Li-ion battery, IR lens

Temperature measurement

Thermal Imageing Camera

Thermal Imaging Camera TI400

TI400 is with cutting-edge thermal imaging technology, provide high performance with 5MP visual camera, interchangeable lens, large 5” foldable and rotatable LCD, manual & auto focus. Thermal imaging cameras TI400 is with ergonomic design, super image quality, multiple measurements, providing powerful assistance for thermographers to have the most efficient instrument for maintenance inspections. TI400 has a wide range temperature measurement to satisfy variety of thermograph applications, they enable you to identify the small temperature difference that could cause big problems.

- High IR resolution
- Excellent thermal image and high accuracy temperature measurement
- Folding and 270°rotatable display
- Auto|Motor focus for one-hand operation
- Bright LED light， Laser pointer
- Built-in digital camera
- Wide temperature measurement range
- 60sec voice annotation
- Interchangeable IR lens,With wide-angle & telephoto lens option
- Scalable P-I-P and Thermal fusion
- Multiple Measurement
- Real-time thermal video transfer to PC via USB, and remote transfer via MSN and Skype
- New generation IRSee analysis software

Detector Data
Detector type : Uncooled FPA
IR resolution : 384×288
Pixel pitch : 25μm
Spectral range : 8～14μm

Image Performance
FOV/Min focus distance
24°×18°/ 0.4m, 48°×36°/ 0.2m, 14°×10.5°/ 0.8m
IFOV : 1.35mrad(24°×18°)
NETD/Sensitivity : < 60mk@30℃
Frequency : 50Hz/60Hz
Focus : Manual/Motor/Auto
Digital Zoom : 1～8× continuous
Visual camera : 5.0 mega pixel
Spotlight : 10cd/m²
Image mode
Thermal image, visual imgae, P-I-P , thermal fusion, W-I-W

Image Display
Viewfinder
0.6” color OLED, with magnification
Display
5”, 270° tiltable LCD, 800x480 pixels

Measurement
temperature range
-40℃～600℃(Standard)
-40℃ ~ 1200℃(optional)
temperature accuracy
±2℃ or ±2% of reading
Measurement correction
Auto/Manual
Spotmeter
10 adjustable spots
Area
5 adjustable boxes with max./min./avg temperature value
Line profile
Vertical/Horizontal
Isotherms analysis
Capture high/low temperature/interval
Delta T
Yes
Emissivity correction
ajustable from 0.01 to 1.0 or selected from list of materials
Alarm
Voice, color
Dew point alarm
Yes
Color Palletes
12 palletes (Including iron, rainbow, white hot and black hot etc.）
Image adjustment
Adjust contrast and brightness auto/manual
Setting function
Date/time，temperatureerature unit℃/℉/K，language
Background temperature correction
Auto
Atmospheric transmissivity correction
Auto
Languages
10 Languages(English, French, Italian, German, Spanish, Portuguese, Russian, Korean, Japanese, Simplified Chinese & Traditional Chinese)

Image Storage
Storage type
Built-in flash card, up to 2800radiometric JPEG images,8G SD card，up to >22400 radiometric JPEG images
Voice annotation
60s voice record, stored with per image via built-in microphone.
Periodic image storage
User definited, 10s at least

Laser Point
Grade/Type
Class 2, 1mW/635nm Red

Power System
Battery type
Rechargeable and replaceable li-lion battary
Battery operating time
2.5hours
Charging System
In camera, AC adapter, car charger
AC supply
110~240V AC, 50/60Hz,10~15V DC output
Power saving
Auto shutdown(user defined)

Enviroment Parameters
Operation temperature
-20℃ - +50℃
Storage temperature
-40℃ - +70℃
Humidity
≤95%（Non- condense）
Encapsulation
IP54 （IEC60529)
Shock
25G,IEC60068-2-29
Vibration
2G,IEC60068-2-6

Physical Data
Size, L x W x H
200*117*127mm
Weight
≤1.3Kg(with battery and standard lens)

Interfaces
USB : Radiometric images transfer to and from PC
Blue tooth : Yes
Video output : CVBS
Audio output : Yes
Power : Yes
Tripod : 1/4″_20

Packing
Standard
Thermal imaging camera with standard IR lens, 2 Li-ion batteries, Battery charger, Adapter, USB cable, SD card, SD card reader, Software CD, warranty card, transport case

Temperature measurement

Thermal Imageing Camera

Thermal Imaging Camera TI600

TI600 is with cutting-edge thermal imaging technology, provide high performance with 5MP visual camera, interchangeable lens, large 5” foldable and rotatable LCD, manual & auto focus. Thermal imaging cameras TI600 is with ergonomic design, super image quality, multiple measurements, providing powerful assistance for thermographers to have the most efficient instrument for maintenance inspections. TI600 has a wide range temperature measurement to satisfy variety of thermograph applications, they enable you to identify the small temperature difference that could cause big problems.

- High IR resolution
- Excellent thermal image and high accuracy temperature measurement
- Folding and 270°rotatable display
- Auto|Motor focus for one-hand operation
- Bright LED light， Laser pointer
- Built-in digital camera
- Wide temperature measurement range
- 60sec voice annotation
- Interchangeable IR lens,With wide-angle & telephoto lens option
- Scalable P-I-P and Thermal fusion
- Multiple Measurement
- Real-time thermal video transfer to PC via USB, and remote transfer via MSN and Skype
- New generation IRSee analysis software

Detector Data
Detector type: Uncooled FPA
IR resolution: 640×480
Pixel pitch: 25μm
Spectral range: 8～14μm

Image Performance
FOV/Min focus distance
24°×18°/ 0.5m, 48°×36°/ 0.3m, 14°×10.5°/ 1.2m
IFOV: 0.65mrad(24º×18º)
NETD/Sensitivity
< 65mk@30℃
Frequency: 50Hz/60Hz
Focus: Manual/Motor/Auto
Digital Zoom: 1～8× continuous
Visual camera: 5.0 mega pixel
Spotlight: 10cd/m²
Image mode
Thermal image, visual imgae, P-I-P , thermal fusion, W-I-W

Image Display
Viewfinder
0.6” color OLED, with magnification
Display
5”, 270° tiltable LCD, 800x480 pixels

Measurement
temperature range
-40℃～600℃(Standard)
-40℃ ~ 1200℃(optional)
temperature accuracy
±2℃ or ±2% of reading
Measurement correction
Auto/Manual
Spotmeter
10 adjustable spots
Area
5 adjustable boxes with max./min./avg temperature value
Line profile
Vertical/Horizontal
Isotherms analysis
Capture high/low temperature/interval
Delta T
Yes
Emissivity correction
ajustable from 0.01 to 1.0 or selected from list of materials
Alarm
Voice, color
Dew point alarm
Yes
Color Palletes
12 palletes (Including iron, rainbow, white hot and black hot etc.）
Image adjustment
Adjust contrast and brightness auto/manual
Setting function
Date/time，temperatureerature unit℃/℉/K，language
Background temperature correction
Auto
Atmospheric transmissivity correction
Auto
Languages
10 Languages(English, French, Italian, German, Spanish, Portuguese, Russian, Korean, Japanese, Simplified Chinese & Traditional Chinese)

Image Storage
Storage type
Built-in flash card, up to 700 radiometric JPEG images,8G SD card，up to >5600 radiometric JPEG images
Voice annotation
60s voice record, stored with per image via built-in microphone.
Periodic image storage
User definited, 10s at least

Laser Point
Grade/Type
Class 2, 1mW/635nm Red

Power System
Battery type
Rechargeable and replaceable li-lion battary
Battery operating time
2.5 hours
Charging System
In camera, AC adapter, car charger
AC supply
110~240V AC, 50/60Hz, 10~15V DC output
Power saving
Auto shutdown(user defined)

Enviroment Parameters
Operation temperature
-20℃ - +50℃
Storage temperature
-40℃ - +70℃
Humidity
≤95%（Non- condense）
Encapsulation
IP54 （IEC60529)
Shock
25G,IEC60068-2-29
Vibration
2G,IEC60068-2-6

Physical Data
Size, L x W x H
200*117*127mm
Weight
≤1.3Kg(with battery and standard lens)

Interfaces
USB
Radiometric images transfer to and from PC
Blue tooth: Yes
Video output: CVBS
Audio output: Yes
Power: Yes
Tripod: 1/4″_20

Packing
Standard
Thermal imaging camera with standard IR lens, 2 Li-ion batteries, Battery charger, Adapter, USB cable, SD card, SD card reader, Software CD, warranty card, transport case